To: Seter, David[Seter.David@epa.gov]; Sarah Peters[speters@mcginnisandassociates.com]; ghatch.ypt-nsn.gov[ghatch@ypt-nsn.gov]; Earle Dixon[edixon@mcginnisandassociates.com]
From: Dietrick McGinnis
Sent: Wed 2/8/2017 11:29:43 PM
Subject: Figure 3-2 in the Background Groundwater V3 document
Well logs 5 - 12.pdf

Dave,

I could not help but notice that the depth to bedrock map included in this and other reports may be flawed in the area of the Reservation. Monitoring well 10 is at an elevation of 4337 and, following the drillers log attached, is drilled to 230 feet where it encountered "white chips". I was onsite when this well was drilled and from my notes, the driller stated that he felt he had encountered a boulder but it may or may not be bedrock. If that is bedrock, then it is at 4107 feet or deeper but is marked on the figure as approximately 4200 feet and mislabeled as "4197.26 feet." These two adjustments not only change the depths as illustrated, but may well require that the estimated shape of the bedrock surface be re-evaluated with the added note that there is an absence of data regarding bedrock. This may also show an important data gap since bedrock in the area of the Reservation may only be confirmed by one or possibly two wells.

For additional reference, the Tribes domestic well (well 5) is located next to YPT MW6S and the elevation is approximately 4335 feet. The attached well log shows that it is drilled to 250 feet blgs and did not encounter bedrock. That would indicate that bedrock is below 4085 feet. On the figure the bedrock in the area is shown as below 4050 feet (although just out of the contoured area).

I have sent this to Earle for his thoughts, I am not sure this is significant in the current discussion. It missed the deadline for comments on the report but I would hope it or we would be corrected in the near future.

Dietrick

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